

*C6* ~~1. (Twice amended) An isolated nucleic acid comprising a polynucleotide that hybridizes under highly stringent conditions to a SEQ ID NO:1, base pairs 57583-58854, wherein said polynucleotide encodes a protein that has an oxidase activity.~~

*C7* ~~10. (Twice amended) The nucleic acid of claim 9, wherein the sequence of said protein is SEQ ID NO:115.~~

*C8* ~~12. (Twice amended) The nucleic acid of claim 9, wherein said nucleic acid further comprises a nucleic acid encoding a protein encoded by SEQ ID NO:99.~~

*C8* ~~13. (Twice amended) The nucleic acid of claim 9, wherein said nucleic acid further comprises a nucleic acid encoding a protein selected from the group consisting of SEQ ID NO:113, SEQ ID NO:109, and SEQ ID NO:96.~~

*C8* ~~14. (Twice amended) The nucleic acid of claim 9, wherein said nucleic acid further comprises a nucleic acid encoding a protein selected from the group consisting of SEQ ID NO:107, SEQ ID NO:106, SEQ ID NO:102, SEQ ID NO:101, SEQ ID NO:100, SEQ ID NO:98, and SEQ ID NO:97.~~

*C9* ~~21. (Twice amended) An isolated gene cluster comprising a nucleic acid, which nucleic acid comprises open reading frames encoding polypeptides sufficient to direct the assembly of a bleomycin or a bleomycin analogue, wherein a polypeptide of the polypeptides is SEQ ID NO:115.~~

*C10* ~~40. (Twice amended) An expression vector comprising the nucleic acid of any one of claims 1, 2, 3, 9, 10, 12, 13, 14, and 21.~~

*C11* ~~71. (Amended) A cell comprising a modified bleomycin gene cluster, wherein the modified bleomycin gene cluster comprises a nucleic acid which encodes a protein comprising SEQ ID NO:115, said cell producing elevated amounts of bleomycin as compared to the wild type cell.~~

*C12* ~~73. (Twice amended) The cell of claim 71, wherein said cell overexpresses a resistance gene from the bleomycin gene cluster and wherein said resistance gene is selected from the group consisting of *blmA* and *blmB*.~~